WHAT IS CLAIMED IS:

- 1. A sensor system comprising:
 - a light emitting device configured to emit light;
 - a first securement device attached to the light emitting device;
- a detector configured to detect the light received from the light emitting device and generate a current based on the amount of light detected;
 - a second securement device attached to the detector; and
- an adjustable band having a first end connected to the first securement device and a second end connected to the second securement device, the band configured to align the light emitting device and the detector.
- 2. The sensor system of claim 1 wherein the adjustable band is a two piece adjustable band, a first piece of the adjustable band having means for attaching to a second piece of the adjustable band.
- 3. The sensor system of claim 1 wherein the adjustable band has a first piece having a plurality of pegs and a second piece having a plurality of openings, the plurality of pegs configured to be removably attached to the plurality of openings to allow the adjustable band to be increased and decreased in size.
- 4. The sensor system of claim 1 further comprising an extender having a first end attached to the first securement device and a second end free from attachment and configured to be wrapped around the adjustable band.
- 5. The sensor system of claim 1 further comprising a first button attached to the first securement device and a second button attached to the second securement device.
- 6. The sensor system of claim 5 further comprising a wrap having at least two openings, the first opening configured to attach to the first button and the second opening configured to attach to the second button.
- 7. A device for connecting a light emitting device and a detector, the device comprising:
 - a first securement device attached to the light emitting device;
 - a second securement device attached to the detector; and

- a band having a first end connected to the first securement device and a second end connected to the second securement device, the band configured to align the light emitting device with the detector.
- 8. The device of claim 7 further comprising an extender having a first end attached to the first securement device and a second end free from attachment and configured to be wrapped around the band.
- 9. The device of claim 8 wherein the band has a first length and the extender has a second length, the second length being greater than the first length.
- 10. The device of claim 7 further comprising a first button attached to the first securement device and a second button attached to the second securement device.
- 11. The device of claim 10 further comprising a wrap having at least two openings, the first opening configured to attach to the first button and the second opening configured to attach to the second button.
- 12. The device of claim 7 wherein the first end of the band is detachable from the first securement device.
- 13. The device of claim 7 wherein the second end of the band is detachable from the second securement device.
- 14. The device of claim 7 wherein the band is perforated at the first and second ends for removal of the band.
- 15. The device of claim 7 wherein the band has a perforation that is located in a middle section of the band.
 - 16. A sensor system comprising:
 - a light emitting device configured to emit light;
 - a detector configured to detect the light and generate a current based on the amount of light detected; and
 - a two-piece adjustable band having a first end configured to be connected to the light emitting device and a second end configured to be connected to the detector.
- 17. The device of claim 16 further comprising an extender having a first end attached to the first securement device and a second end free from attachment and configured to be wrapped around the adjustable band.

- 18. The device of claim 16 further comprising a first button attached to the first securement device and a second button attached to the second securement device.
- 19. The device of claim 18 further comprising a wrap having at least two openings, the first opening configured to attach to the first button and the second opening configured to attach to the second button.
- 20. The sensor system of claim 16 wherein the first end of the band is configured to be attached to and detached from the second end of the band.
- 21. The sensor system of claim 16 wherein the two-piece adjustable band has a first piece having a plurality of pegs and a second piece having a plurality of openings, the plurality of pegs configured to be removably attached to the plurality of openings to allow the adjustable band to be increased and decreased in size.